

Abstract of the Disclosure

The present invention provides a fast, low-cost, small diverter capable of generating a relatively high impulse (1-5 N-sec) over a short time period. The diverter is adapted for installation in a projectile for steering the projectile in flight by ejecting an end cap or hot burning gases in response to control signals from a guidance system. In one embodiment, multiple diverters are arranged in one or more bands about a flying projectile such as a rocket. Each diverter includes a header assembly providing support for a plurality of electrical leads, a mounting surface either on the header assembly or on a sealing assembly, a reactive semiconductor bridge mounted on the mounting surface and providing an electrical path for the electrical leads at a certain voltage across the bridge, a diverter body supporting the header assembly and containing a prime, wherein the reactive semiconductor bridge and the prime permit a gap, and an end cap or a sealing assembly attached to the diverter body containing the propellant.